# 1.6 Universal Remote Control

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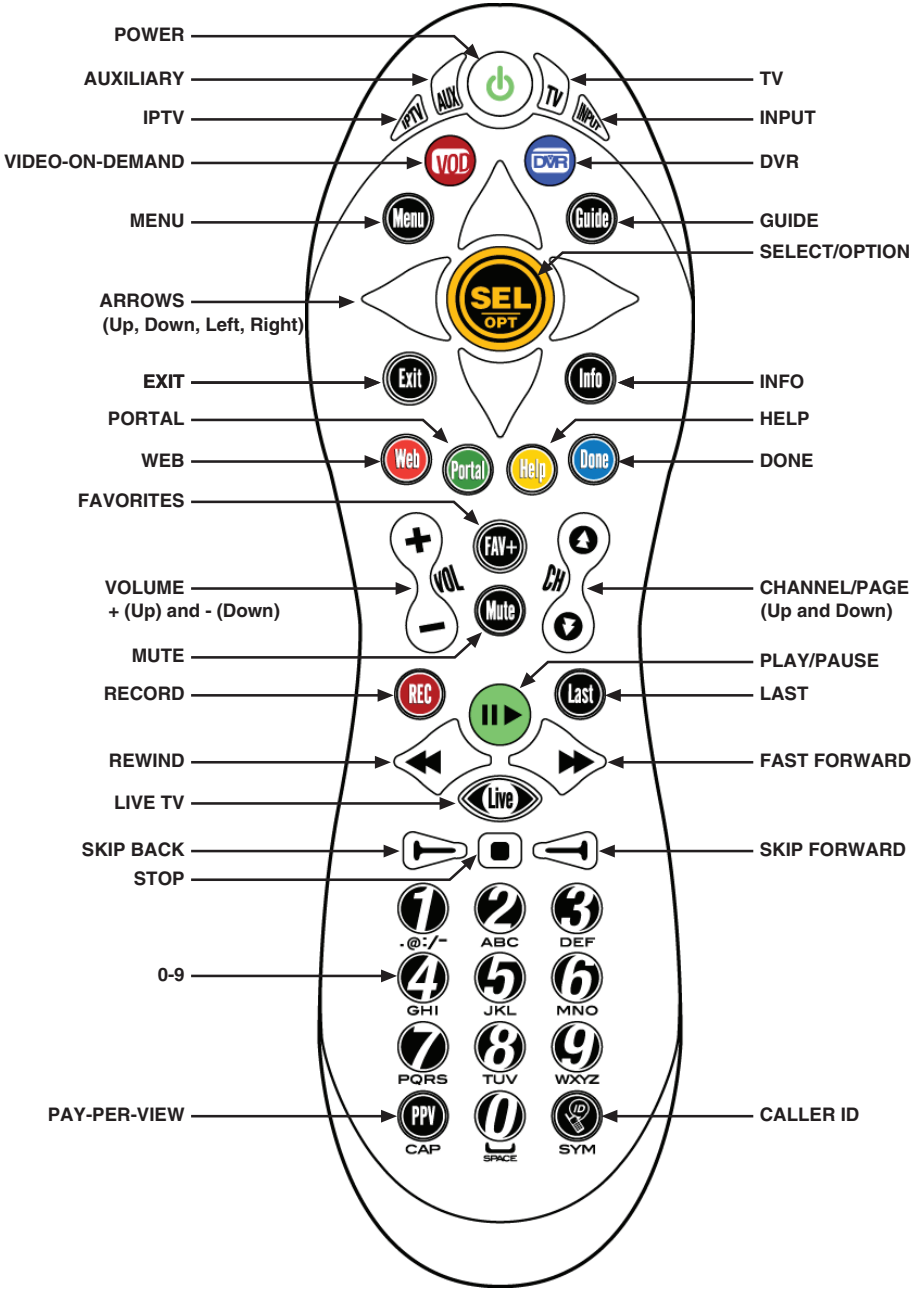
|---|---|
| IPTV | Activates remote to control the Digital Set-Top Box (IPTV MODE). |
| AUX | Activates the remote to control an auxiliary device (AUXILIARY MODE). |
| POWER | Switches Power On or into Stand-By Mode. |
| TV | Activates remote to control a TV (TV MODE). |
| INPUT | Selects the Video Source (i.e. Video 1, Video 2, etc.) |
| VOD | Displays the VIDEO ON DEMAND service. |
| DVR | Displays the DVR Playlist. |
| MENU | Opens the MENU FEATURES screen of the MENU SYSTEM. |
| GUIDE | Displays the PROGRAM GUIDE. |
| ARROWS (Up, Down, Left, Right) | While using the MENU SYSTEM and PROGRAM GUIDE, arrows will move the onscreen highlight up, down, left, or right. While in INFO MODE, arrows will browse through the channel lineup (Up & Down) and the next available program (Right).<br>While inside a text window, the Up and Down arrows will scroll through the characters A-Z and numbers "0-9". Use the Left and Right arrows to navigate through the text window. |
| SEL/OPT | Confirms a selection. In SURF MODE displays the OPTION MENU. |
| EXIT | Returns video to full screen from any INFO, MENU SYSTEM, PORTAL or PROGRAM GUIDE screen. |
| INFO | Displays various information about the current program. |
| WEB | (Red) Displays the WEB BROWSER. |
| PORTAL | (Green) Displays the MAIN PORTAL screen. |
| HELP | (Yellow) Displays the HELP AND INFORMATION for the current screen. |
| DONE | (Blue) Automatically selects "DONE" or "CANCEL" onscreen and saves any changes you have made to the current screen. |
| VOLUME | Increases or decreases volume levels. |
| FAV+ | Rotates Favorite Lists between All Channels, currently selected Theme and any of the active Custom Favorite Lists. |
| MUTE | Cancels the audio. |
| CHANNEL/ PAGE (Up or Down) | In SURF MODE, selects the previous and next available channels.<br>While using channel lists, menu screens, or program lists, scrolls one page up or down. |
| RECORD | Sets the DVR, or a VCR to record. |
| LAST | Switches between the current and previous channel.<br>In the MENU SYSTEM and PROGRAM GUIDE, LAST returns to the previous screen. |
| PLAY/PAUSE | Instructs the DVR, a VCR or a DVD player to Play or Pause. |
| LIVE TV | Directs the DVR to display Live TV. |
| SKIP BACK | Instructs the DVR or DVD player to replay the current scene or track. |
| STOP | Instructs a DVR, a VCR or a DVD player to Stop. |
| SKIP FORWARD | Instructs the DVR or DVD player to skip to the next scene or track. |
| 0-9 | Enters Channel Numbers, PIN-Code Numbers and various Characters. |
| PPV | Displays Pay-Per-View feature. |
| CALLER ID | Displays Caller ID feature. |




**All Remote Control Features are subject to availability.**

| PROBLEM | POSSIBLE CAUSE | SUGGESTIONS |
|---|---|---|
| No LED lights appear on the front panel display of your Digital Set-Top Box. | Your box is not plugged in properly. | Make sure the power cord is plugged in correctly and the power outlet is working properly. |
| The Digital Set-Top Box does not respond to your Remote Control. | 1. The Digital Set-Top Box is in standby mode.<br>2. Something, such as furniture, is blocking the path between the Remote Control and the Digital Set-Top Box.<br>3. The batteries in the Remote Control need to be replaced. | Check that nothing is blocking the front panel of your Digital Set-Top Box. Press the POWER button on the Remote Control. This will bring the Digital Set-Top Box out of standby mode.<br>If this does not work, your Digital Set-Top Box may be at fault. But if this works, you should replace the batteries on your Remote Control. If replacing the batteries properly (check the + and - position) doesn't work, then your Remote Control may have problems. |
| LED Lights display on the front panel of the Digital Set-Top Box, but nothing is displayed on the TV. | The Digital Set-Top Box is not hooked up properly to your television set. | If your system is connected by Coax Cables, switch your TV to the channel you have selected as its channel for the Digital Set-Top Box.<br>NOTE: If you have not yet manually tuned your TV or turned your TV on, you need to do this first. |



# Appendix 5

## Universal Remote Codes

The Nagravision Universal Remote Control is already programmed to control your Digital Set-Top Box.

### Code Setup

#### Manual Code Setup (TV and AUX)

1) Turn on the electronic devices (TV, VCR, DVD, etc. ) that you want to program the universal remote control to operate.
2) Press and hold down [TV] or [AUX] button for 3 seconds until LED indicator lights and remains illuminnated on remote control.
3) From the setup code list, press the 3-digit code for your brand device.
4) If the device turns off when you enter the 3-digit code, press the [TV] or [AUX] button to confirm.
5) The indicator light will flash 3 times and then turn off.

#### Auto Code Setup (TV and AUX)

1) Turn on the electronic devices (TV, VCR, DVD, etc. ) that you want to program the universal remote control to operate.
2) Press [TV] or [AUX] button and hold both down until the red light on your remote control comes on.
3) Press and release the [CHANNEL/PAGE +] button (or [CHANNEL/PAGE -] button) until the device turns off.
4) As soon as device turns off, press the [TV] or [AUX] button to confirm.
5) The indicator light will flash 3 times and then turn off.

### Code Information

To identify the 3-digit setup codes stored under auto setup or manual setup, follow these steps:

1) Press [TV] or [AUX] button until LED indicator lights on the remote control.
2) Press [INFO]. The red light on your remote control will blink the code numbers with a 2 second interval between each digit of the code. Example: For code "143", the LED indicator light on the remote control will blink 1 time then 4 times, then 3 times.
   NOTE: For "0", the remote will flash 4 times in rapid succession.

### Total Reset

To reset your remote control to its factory default settings, follow these steps:

1) Press [TV] or [AUX] button until LED indicator lights on remote control.
2) Enter the code "000".
3) The remote control returns to factory defaults after the LED indicator light on the remote control blinks 3 times.

## TV CODES

ADMIRAL: 220,160,081, 072,161

ADVENT: 231

AIWA: 213

AKAI: 146,001,049,050

AMARK: 143,131

AMPRO: 073,157,167

AMSTRAD: 052

ANAM: 242,131,080, 056,043

AOC: 058,004,001,131

APEX: 247

AUDIOVOX: 076

BLAUPUNKT: 088

BROKSONIC: 241

CAIRN: 201

CANDEL: 004,003, 002,001

CAPEHRT: 058

CETRONIC: 043

CITIZEN: 143,103,101, 043,004,003,002,001

CLASSIC: 043

CONCERTO: 004

CONTEC: 051,043,079

CORNEA SYSTEM: 246

CORONADO: 143

CRAIG: 043

CROWN: 143,043

CURTIS MATHES: 143, 101,004,001

CXC: 043

DAEWOO: 143,127,125, 114,103,076,043,027, 016, 004, 069

DAYTRON: 143,004

DELL: 036

DWIN: 177

DYNASTY: 043

DYNATECH: 062

DYNEX: 068

EIKI: 187

ELECTRO HOME: 196, 143,076,024

EMERSON: 245,155,154, 143,096,076,051,048, 047,043,028,005,004, 001,077,079,151,153

ESA: 049,050

FISHER: 057,007

FUJITSU: 244,198, 117,118

FUNAI: 245,043,028

FUTURETECH: 043

GATEWAY: 041, 202

GE: 220,165,160,155,144 074,073,056,034,009, 008,004,001,091,130, 157,206

GRADIENTE: 218,110

HAIER: 203

HALL MARK: 004

HITACHI:143,075,072, 023,012,011,010,009, 004,158,166

INFINITY: 249,164

INSIGNIA: 054

JBL: 249,164

JC PENNEY: 160,143, 101,065,030,024,009, 008,004,001,156

JENSEN: 013

JVC: 237,230,145,083, 070,038,034,199

KEC: 043

KENWOOD: 070,001

KLOSS: 059, 002

KMC: 143

KTV: 250,154,143, 043,001

LG(GOLDSTAR):143, 127,119,106,004,102, 113,116,131

LODGENET: 072

LOEWE: 249

LOGIK: 072

LUXMAN: 069

LXI: 249,164,160,081, 052,015,007,166

MAGNAVOX: 249,205, 223,222,216,210,164, 160,127,094,064,063, 060,059,004,003,001, 218,219,014,039,108

MARANTZ: 249,164,001

MATSUI: 164

MEMOREX: 096,072, 007,004

METZ: 088

MGA: 042,028,024, 004,001

MINERVA: 088

MITSUBISHI: 225,146, 124,109,042,040,031, 028,021,024,004,191

MOTOROLA: 217

MTC: 101,062,004,001

NAD: 025,015

NEC: 056,040,024,019, 016,001,130,132,134

NIKEI: 043

OLEVIA: 045

ONKING: 043

ONWA: 043

OPTONICA: 081,019

ORION: 096

PANASONIC: 250,249, 238,236,227,164,080, 056,034,017,033,092

PHILCO: 164,064,063, 060,059,056,024,004, 003,001

PHILIPS: 249,205,164, 127,093,066,059,038, 005,004, 003,001

PIONEER: 135,025,023, 018,001,116,190

PORTLAND: 143,004

PROSCAN: 197,165,220, 160,144,161,167

PROTON: 173,171,143, 131,058,004,193

QUASAR: 250,056,044, 034,017,092

RADIO SHACK: 143,127, 043,019,004

RCA: 228,220,165,160, 152,144,074,065,056, 024,023,004,001,156, 161,208

REALISTIC: 047,043,019, 007,077

ROCTEC: 186

RUNCO: 182,168,073, 157,169,178,179,180,181

SAMPO: 202,058, 004,001

SAMSUNG: 251,248,209, 160,143,127,105,101, 089,004,079,121,026

SANSUI: 078,097

SANYO: 082,057,053, 020,007,166,187

SCEPTRE: 035,253,070

SCOTT: 143,048,043, 028,004

SEARS: 165,160,143, 094,082,057,030,028, 015,007,004,166

SELECO: 189,200

SHARP: 207,170,143, 081,029,028,022,019, 004,067,175,254,084.090

SIEMENS: 088

SIGNATURE: 072

SONY: 194,147,139,070, 006,085,126,185

SOUNDESIGN: 043,028, 004,003

SPECTRICON: 131

SSS: 043,004

SUPRE MACY: 002

SYLVANIA: 249,245,240, 229,226,211,164,160, 127,064,063,060,059, 003,001,069

SYMPHONIC: 245

TANDY: 081

TATUNG: 062,056

TECHNICS: 080,034

TECHWOOD: 004

TEKNIKA: 143,101,072, 043,028,024,004,003,002

TELEFUNKEN: 037,071, 086,087

TELERENT: 072

TERA: 172

THOMAS: 245

TMK: 004

TOSHIBA: 232,138,101, 062,040,032,030,015, 007,122

TOTEVISION: 143

UNIVERSAL: 009,008

VIDEO CONCEPTS: 146

VIDIKRON: 184,174,188

VIDTECH: 004

VIORE: 046

VISIO: 100

WARDS: 249,164,143,074,072, 064,063,060,034,028, 019,009,008,004

WESTING HOUSE: 245, 076,061,055,054,252

YAMAHA: 004,001

YORK: 004

YUPITERU: 043

ZENITH: 103,095,073, 072,157,120

ZONDA: 131



## VCR CODES

AIWA: 161,034

AKAI: 146,125,124,046, 043,016

AMPRO: 072

ANAM: 145

AUDIO DYNAMICS: 043, 039,012

BROKSONIC: 129, 037

CANON: 145

CAPEHART: 108

CRAIG: 135,104,001

CURTIS MATHES: 145,041

DAEWOO: 117,112,111,108,010, 007,005

DAYTRON: 108

DBX: 043,039,012

DYNATECH: 053,034

ELECTROHOME: 059

EMERSON: 167,131,129,117,106, 145,046,037,036,034, 025,006

FISHER: 010,009, 008,001

FUNAI: 034

GE: 147,144,109,107, 145,072

GO VIDEO: 168,155,136, 132,104

HARMAN KARDON: 046,012

HITACHI: 160,043,034, 026,020

INSTANT REPLAY: 145

JC PENNEY: 106,104, 145,020,012

JCL: 145

JENSEN: 043

JVC: 152,130,145,060, 048,043,012

KENWOOD: 048,047, 034,014

LG(GOLDSTAR): 123, 114,106,020,012

LLOYD: 034

LXI: 106,034,009,001

MAGIN: 104

MAGNAVOX: 164,156, 145,067,041,034

MARANTZ: 145,069, 067,012

MARTA: 106

MATSUI: 030

MEI: 145

MEMOREX: 145,139, 106,104,072,053,034, 014,010,001

MGA: 059,046

MINOLTA: 020

MITSUBISHI: 223,203, 151,061,059,046,020

MOTOROLA: 201

MTC: 104,034

MULTI TECH: 034,024

NEC: 048,043,039,012

NORDMENDE: 043

OPTONICA: 053

ORION: 025

PANASONIC: 211,202, 145,074,070

PENTAX: 145,020

PHILCO: 145,067,034

PHILIPS: 106,145,071

PILOT: 106

PIONEER: 048,021,020

PORTLAND: 108

PROSCAN: 205,204

PULSAR: 072

QUARTZ: 041,002

QUASAR: 145

RADIO SHACK: 123

RCA: 209,158,147,145, 144,109,107,104,041, 034,020

REALISTIC: 106,104, 145,053,034,014,010, 008,001

RICO: 058

RUNCO: 148

SALORA: 014

SAMSUNG: 208,168, 125,112,109,107,104, 145,032

SANSUI: 135,048,043

SANYO: 104,014,010, 007,001

SCOTT: 131,129,112,037

SEARS: 112,106,020, 014,010,009,008,001

SHARP: 215,165,159, 145,053

SHINTOM: 024

SIGNATURE: 034

SONY: 212,206,154,153, 145,078,076,058,057, 056,053,052,001

SOUNDESIGN: 034

STS: 020

SYLVANIA: 220,219,218, 145,067,059,034

SYMPHONIC: 034

TANDY: 034,010

TATUNG: 043,039

TEAC: 043,039,034

TECHNICS: 145,070

TEKNIKA: 106,145, 034,019

THOMAS: 034

TMK: 006

TOSHIBA: 221,131,113, 112,082,059,047,020,008

TOTEVISION: 106,104

UNITECH: 104

VECTOR RESEARCH: 012

VICTOR: 048

VIDEO CONCEPTS: 046,034,012

VIDEOSONIC: 104

WARDS: 131,104,145, 053,034,024,020,001

YAMAHA: 043,039, 034,012

ZENITH: 167,106,080, 072,058,056,048,034

## DVD CODES

APEX DIGITAL: 453,520

BROKSONIC: 317

CYBERHOME: 465, 320,304

DAEWOO: 493,471

DENON: 540,526

EMERSON: 458,450,448

GE: 543,531

GO VIDEO: 314,460,302

GRADIENTE: 501,492

HARMON KARDON: 525,518,473

HUMAX: 490,491, 401,403

JVC: 538,312

KENWOOD: 524

KLH: 523

LG(GOLDSTAR) : 549, 547,541,535

LITE ON: 321

MAGNAVOX: 537,463, 468,316

MARANTZ: 468

MEMOREX: 308

MITSUBISHI: 527

NAD: 521

ONKYO: 533,301

PANASONIC: 534,528, 467,452,449

PHILIPS: 537,466,468, 316,307

PIONEER: 530,529, 489,315,400

PROCEED: 519

PROSCAN: 531,529

RCA: 543,531,470,319

SAMSUNG: 548,461, 313,305

SANSUI: 317

SANYO: 306

SHARP: 522,502

SONY: 544,532,504,469, 303,309,404,405

SYLVANIA: 472,450

THOMSON: 543,531

TIVO: 491,400,401,402, 403,404,405

TOSHIBA: 550,545,533, 490,494,451,311,318,401

YAMAHA: 546,534

ZENITH: 547,541, 535,314